AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended): A device for regulating the temperature of a heating wire [[(RH)]], the device comprising:

an electronic switch [[(SW)]] connected in series with the heating wire [[(RH)]], means for controlling the electronic switch [[(SW)]],

characterized in that wherein the device also comprises means [[(4)]] for controlling a switching time of the electronic switch [[(SW)]] and in that the control means [[(4)]] control the voltage across the terminals of the switch [[(SW)]] as a function of a setpoint voltage [[(c(t))]] defining the switching time.

- 2. (currently amended): The device as claimed in claim 1, characterized in that it comprises comprising: means [[(A2)]] for measuring the temperature of the heating wire, in that wherein the control means turn the electronic switch [[(SW)]] on and off as a function of the temperature of the heating wire [[(RH)]].
- 3. (currently amended): The device as claimed in claim 2, characterized in that wherein the means for measuring the temperature of the heating wire [[(RH)]] comprise means [[(A2)]] for comparing the voltage present at the common point between the electronic switch [[(SW)]] and the heating wire [[(RH)]] with a reference voltage [[(R1, R2)]].
- 4. (currently amended): The device as claimed in one of the preceding claim[[s]] 1, characterized in that wherein the control means [[(4)]] define a switching time that is longer than the normal switching time of the electronic switch [[(SW)]] taken in isolation.
- 5. (currently amended): The device as claimed in one of the preceding claim[[s]] 1, characterized in that wherein the control means comprise an operational amplifier [[(A1)]], whereof a first input [[(7)]] is connected to the common point [[(2)]] of the heating wire [[(RH)]]

Docket No.: 4590-420 PATENT

and of the electronic switch [[(SW)]], whereof a second input [[(8)]] receives the setpoint voltage [[(c(t))]] and whereof the output [[(9)]] controls the turning-on and the turning-off of the electronic switch [[(SW)]].

- 6. (new): The device as claimed in claim 2, wherein the control means define a switching time longer than the normal switching time of the electronic switch taken in isolation.
- 7. (new): The device as claimed in claim 3, wherein the control means define a switching time longer than the normal switching time of the electronic switch taken in isolation.
- 8. (new): The device as claimed in claim 2, wherein the control means comprise an operational amplifier, whereof a first input is connected to the common point of the heating wire and of the electronic switch, whereof a second input receives the setpoint voltage and whereof the output controls the turning-on and the turning-off of the electronic switch.
- 9. (new): The device as claimed in claim 3, wherein the control means comprise an operational amplifier, whereof a first input is connected to the common point of the heating wire and of the electronic switch, whereof a second input receives the setpoint voltage and whereof the output controls the turning-on and the turning-off of the electronic switch.
- 10. (new): The device as claimed in claim 4, wherein the control means comprise an operational amplifier, whereof a first input is connected to the common point of the heating wire and of the electronic switch, whereof a second input receives the setpoint voltage and whereof the output controls the turning-on and the turning-off of the electronic switch.

6